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AMENDMENTS TO CLAIMS

Claims 1-17 (cancelled).

Claim 18. (new) A tumbling apparatus for the tumbling processing of large amounts of individual, irregularly shaped raw materials including rock and stone having non-uniform, different overall individual sizes into a finished, tumbled condition and for discharging the finished, tumbled product in separated condition
5 **sorted into groups of different, predetermined product size range, the tumbling apparatus comprising:**

a) a base frame configured for disposition on an underlying surface,
 b) a substantially hollow tumbling drum supported on said base frame
for rotation thereon, said tumbling drum having a peripheral side wall, a closed,
10 **front, first longitudinal end and an opposite second rear longitudinal end defining**
therebetween an interior drum tumbling cavity, said second, rear longitudinal end
having a central opening for loading passage of raw material therethrough and into
said drum cavity during rotation of the drum and for discharge passage of tumbled
material product therethrough and out of said drum cavity during rotation of said
15 **drum,**

c) a substantially cylindrical, longitudinally extending first sizing ring
member having a hollow interior therethrough and open at both opposite

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longitudinal ends, the ring member supported on the tumbling drum in position
extending longitudinally rearwardly of said second, rear end of the tumbling drum
20 and encircling said central opening for communication of the hollow interior of the
ring member with the central opening, the ring member formed with a plurality of
tumbled product sizing openings each having a first, predetermined diameter,

d) a substantially cylindrical, longitudinally extending, second sizing
ring member having a hollow interior therethrough and open at both opposite
25 longitudinal ends, the ring member supported on the tumbling drum in position
extending longitudinally rearwardly of said second, rear end and encircling said
central opening for communication of the hollow interior of the ring member with
the central opening, said second sizing ring member formed with a plurality of
tumbled product sizing openings each having a second, predetermined diameter
30 greater than said first predetermined diameter of said sizing openings of said first
ring member,

e) power drive means for rotating said tumbling drum supported on said
base frame,

f) loading means for communicating raw material to be tumbled in a
35 first direction through said first and second ring members and said drum opening
into said drum cavity during rotation of said tumbling drum on said base frame,
and

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g) tumbling drum tilt means for longitudinally tilting the tumbling drum during rotation on the base frame between a first, loading and tumbling position in
40 which the rotating drum is tilted so that material tumbling in the drum cavity cannot move out of the drum cavity through said drum opening during rotation of the tumbling drum, and a second, discharge position in which the rotating tumbling drum is tilted so that material in the tumbling drum cavity moves toward and through said drum opening and the hollow interior of said first and second sizing
45 ring members during rotation of the tumbling drum,

h) whereby, with the drum rotating and in said second, tilted discharge position and tumbled material moving rearwardly out of the interior of the drum through said central opening and the hollow interior of the encircling first and second sizing ring members extending rearwardly from the drum, said ring
50 members are arranged for material having a diameter less than the diameter of the tumbled product sizing openings of the first sizing ring member to freely pass therethrough and fall vertically downwardly by gravity to a first, smallest finish product size discharge sort location, and material having a size greater than the diameter of the sizing openings of the first ring member but smaller than the larger
55 diameter of the sizing openings of the second sizing ring member to fall by gravity to a second, intermediate finish product size discharge sort location, and material having a size greater than the diameter of the sizing openings of the second sizing

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ring member to move rearwardly through the hollow cylindrical second sizing ring member and out of the open longitudinal end thereof to a third, largest finish
60 product size discharge sort location.

Claim 19. (new) The tumbling apparatus of claim 18 wherein said first longitudinally elongated cylindrical sizing ring member has predetermined longitudinal length, overall ring diameter, and sizing opening diameter dimensions, and said second, longitudinally elongated cylindrical sizing ring member has a
5 predetermined second length that is greater than said predetermined length of said first ring member and has a predetermined overall ring diameter that is less than the predetermined overall ring diameter of said first ring member, and said first ring member is supported on said tumbling drum in condition encircling said second ring member rearwardly adjacent said second, rear longitudinal end of the
10 tumbling drum.

Claim 20. (new) The tumbling apparatus of claim 18 wherein said loading means includes a feed conveyor having infeed and outfeed ends, the feed conveyor supported on the base frame for longitudinal movement of the outfeed end of the conveyor into registry with the interior of said hollow ring members and said
5 central opening of the drum for conveying raw material therethrough and into the drum cavity during rotation of said tumbling drum, and for reverse longitudinal movement of the outfeed end out of registry with the interior of the hollow ring

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members for discharge of tumbled material from the tumbling apparatus.

Claim 21. (new) The tumbling apparatus of claim 20 including a feed hopper supported on the base frame for communication with the infeed end of said feed conveyor, said feed hopper for containing a supply of raw material to be conveyed into the interior of the drum by the feed conveyor.

Claim 22. (new) The tumbling apparatus of claim 21 wherein said base frame is configured as a mobile transport vehicle having ground-engaging wheels for supporting the vehicle for transport along underlying road surfaces.

Claim 23. (new) The tumbling apparatus of claim 18 wherein said base frame is configured as a mobile transport vehicle having ground-engaging wheels for supporting the vehicle for transport along underlying road surfaces.

Claim 24. (new) The tumbling apparatus of claim 18 wherein said second, rear end of said tumbling drum includes a radially inwardly projecting end wall member encircling said central opening for preventing free passage of at least a portion of liquids, abrasive fines, and undesirably small waste product from
5 discharging through said central opening and for retaining the materials in the interior cavity of the tumbling drum for subsequent tumbling operations of the apparatus.